1950/52 **File No.** 9194/36

B CLASS

P.W DEPARTMENT
K BRANCH

Subject:— Estimation of the Natural Difference in Level between the Ghatprabha & Hiranyakeshi Valleys for Hydro-Electric Power Generation

47

B[K] 952

IV

File No. 9194/36

Ltd. Sec'l. Slip. 21 A—

2164—70,000—11-52—R2
G.R., G.D., No. 2408, dated 22-6-22.]

Std. Sectt. 78A e.

Correspondence

DOCKET SHEET (B)

Subject :—

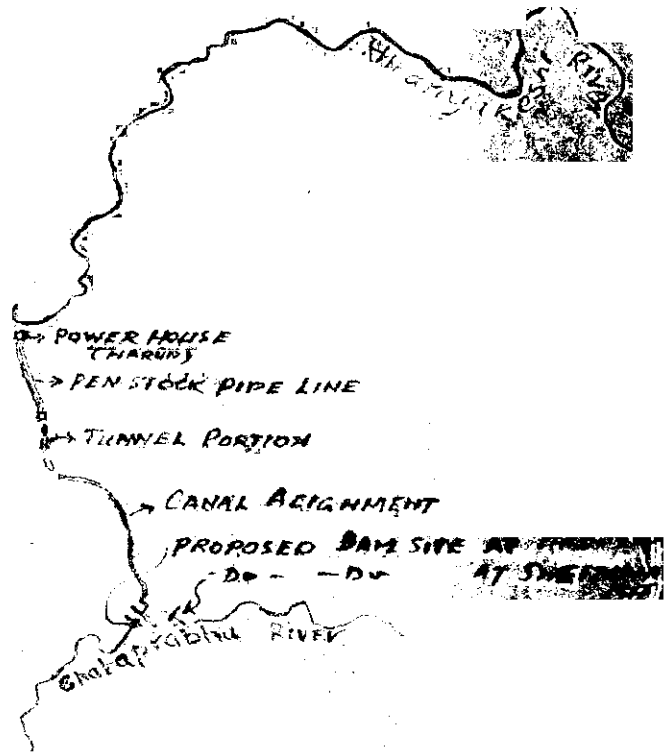
File No._____

_____ **DEPT.**

_____ **BRANCH.**

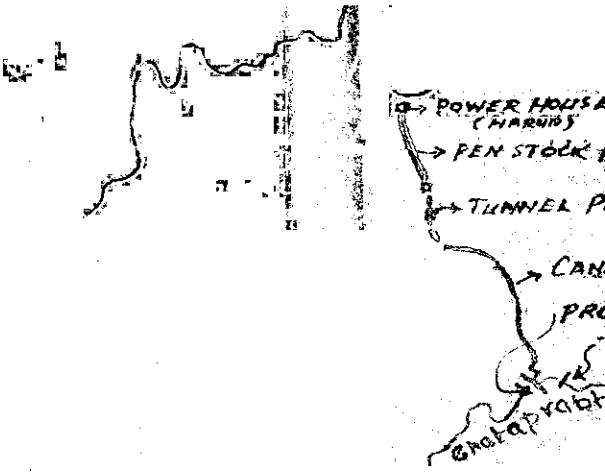
References :—

Date.	To whom sent.	Notes and instructions.



TRACED BY J. M. SHAH
25 - 5 - 50

INDEX PLAN OF THE



TRACED BY J. M. SEN
25-5-50

No.En/Gadd.

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 16th May 1960.

To

The Superintending Engineer,
Bombay Electric Grid,
Parashore Road, Bombay-1.

Subject :- Utilisation of the natural fall between the Ghataprabha & Hiranyakeshi Valleys for Hydro-Electric Power generation.

There is a proposal for providing a storage reservoir of about 30,000 M.cft. on the Ghataprabha River near Hadalga for Irrigation purposes. From the topography of the country it is found that the natural bed level of the adjoining Hiranyakeshi Valley is very much lower than that of Ghataprabha. It, therefore, appears possible to divert the Ghataprabha waters into the Hiranyakeshi Valley to take advantage of this natural fall available for purposes of seasonal generation of Electric Power the tail race being ultimately utilised for Irrigation purposes.

2. As indicated on the index plan attached, it is proposed to draw water from the dam at Hadalga and run the power-channel along the contour for about 4½ miles upto the main ridge. The channel will cross the Tarva Halla on a low Aqueduct and the main ridge between contours 2350 on either side through a tunnel of about 1 mile length thence the waters will be led through penstock pipes to the generating station. The generating station is proposed to be located near Hirur in the Hiranyakeshi Valley and the approximate level of this site as indicated in the topo-sheet is 2080.00. Thus a gross head of about (2200 minus 2080) 220 feet is likely to be available.

3. Keeping in view Irrigation as the main object of storage, the supply of storage water for power generation may be assumed as shown below :-

(1) 1500 cusecs continuous during Rabi Season.

(2) 600 cusecs continuous during Hot Weather.

(3) nil during season. monsoon

4. There is a growing demand for Electric Power for development of enterprising industries like the Sugar Factory at Mudhol, the tapping of the bauxite resources in the surrounding area and the allied Alluminium industries and a few others of the kind. For the successful operation of the Lift Irrigation Schems envisaged by Government, some Electric Power would be necessary. It is hoped that the seasonal generation of Electric Power as proposed above would meet those demands, when and if implemented. With this ~~xtxxxxx~~ object in view, the scheme is worth considering. It may be feasible to ultimately connect this to the Grid Scheme undertaken by your Department.

5. I request you to send your comments on the feasibility of the above Irrigation-cum-Hydel Project.

Sd/- A.G.Naik.
Superintending Engineer, K.I.C.

Encl: 1 plan.

Copy w.cc. for information to the Executive Engineer, Irrigation Projects Division (South) Dharwar.

GEE/-23.6.

5

No. Sm/Hydro

Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 26 May 1950.

To

The Electrical Commissioner
with the Government of Bombay,
Electric Grid,
Foreshore Road, Bombay-1.

I enclose herewith a copy of my letter No.Sm/Daddi dated the 16th May 1950 addressed to the Superintending Engineer (Hydro) Bombay Electric Grid and to point out that the construction of a storage dam on the Ghataprabha river is under active consideration in this Circle and is likely to be started within the next two years. The question of hydro-electric possibilities of the scheme has, therefore, assumed very urgent importance.

2. I have already indicated in para 3 of my letter quoted above the probable discharge that may be assumed to be avoidable from the storage during Rabi and Hot Weather, viz. 1500 cusecs in Rabi and 500 cusecs in Hot Weather. As regards monsoon, a large quantity of uncontrolled floods from the Hiranyakeshi and the Tamraparni rivers will flow over the Gokak Falls and the head available at these Falls can be utilised to generate electricity. 1500 cusecs can be assumed to be available at the Gokak Falls during the monsoon except for some days when the river flow will need to be supplemented from the Ghataprabha storage. In the latter case, the same storage water can be used twice for generating electricity - once in the Powerhouse at Harur near Mahagaon and again at the Gokak Falls, so that water required from storage will be practically only half the deficiency that will be felt at the Gokak Falls during the period of reduced river flow.

3. For purposes of continuous power block, the minimum discharge and head that will be available during any one season will be the criterion and 500 cusecs and 220 ft. gross head may be considered to be such minimum (Hot Weather). This will give a fairly block of power that will be needed for a long time to come in this part of the Karnatak. If the demand develops further, an independent storage in the Hiranyakeshi Valley mainly for power purposes may be considered later. Even otherwise, the larger block of power available with 1500 cusecs in the monsoon and Rabi can be tied up with the Koyna Grid to meet the seasonal increase in demand, if any, from that Grid.

4. Kali Nadi scheme purely for power, may not come up for active consideration for some time to come. Government has already ordered survey and investigation of transmission of electric energy from the Jog Falls to the Karnatak. While this is being done, I suggest that it is essential to investigate fully the economies of power generation in the Ghataprabha valley as, due to the distance, it may not be possible to take electricity from the Jog Falls to the area that can be served by the Ghataprabha Scheme. As stated above, the construction of a dam will be started for the Ghataprabha Valley Development Scheme within the next two years in any case for purposes of irrigation. As such the situation obviously lends itself possibly for a very economic and immediate development of energy.

5. I would therefore, [illegible] you to [illegible]

Executive Engineer (Hydro) to this Circle at a very early date to work out a rough scheme in coordination with the Executive Engineer, Irrigation Projects Division(South). I understand that one of your Executive Engineers is investigating provision of thermal installations in parts of the Belgaum District likely to be served by the Irrigation-cum-Hydel Scheme proposed above. These may not be necessary if the Hydel Scheme envisaged above proves to be economical.

Encl:
1 plan.

Superintending Engineer, K.I.C.

BR/26-5.

Copy forwarded with compliments to the Secretary to Government, Public Works Department, Bombay, for information.

2. Government may please be moved to authorise the Electrical Commissioner to depute immediately one Executive Engineer (Hydro) to work out the scheme sketched above. The survey staff on Civil side will be made available to the Executive Engineer (Hydro) by this office, if required.

3. Power generation in Hot Weather will necessarily entail perennial irrigation not contemplated in the original project of the Ghataprabha Left Bank Canal. But this will have to be allowed sooner or later for improving the economies of the Irrigation Canal.

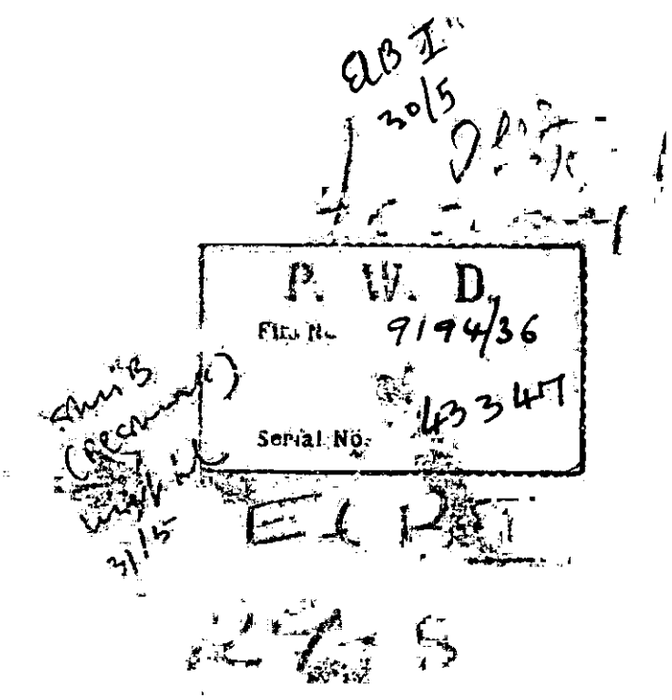
4. Another aspect of the Hydro-electric Scheme will be the practical abandonment of the Ghataprabha Right Bank Canal although a low level Ghataprabha Right Bank Canal taking off from Dhupdal weir will still be a possibility.

Copies forwarded with compliments to the Additional Chief Engineer to the Government of Bombay, P.W.D., Bombay, for information.

Copies forwarded with compliments to the Superintending Engineer (Hydro) Electric Grid, Bombay for information.

Copies forwarded with compliments to the Executive Engineer, Irrigation Projects Division(South) for information.

BR/26-5.


P. W. D.
File No. 9194/36
Serial No. 43347

No. Bm / Hydro

Office of the Superintending Engi
Karnatak Irrigation Circle,
Dharwar, 26th May, 1950.

To

The Electrical Commissioner
with the Government of Bombay,
Electric Grid,
Foreshore Road, Bombay-1.

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Encl:
1 plan.

(Sd) A.G. Naik.

Superintending Engineer, K.I.C.

BR/26-5.

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Copies forwarded with compliments to the Additional Chief Engineer to the Government of Bombay, P.W.D., Bombay, for information.

Copies forwarded with compliments to the Superintending Engineer (Hydro) Electric Grid, Bombay for information.

Copies forwarded with compliments to the Executive Engineer, Irrigation Projects Division(South) for information.

BR/26-5.

13 47

No.Em/Daddi. Office of the Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 16th May 1950.

To

The Superintending Engineer,
Bombay Electric Grid,
Foreshore Road, Bombay-1.

Subject :- Utilization of the natural fall between the Ghataprabha & Hiranyakeshi Valleys for Hydro-Electric Power generation.

There is a proposal for providing a storage reservoir of about 30,000 M.cft. on the Ghataprabha River near Hadalga for Irrigation purposes. From the topography of the country it is found that the natural bed level of the adjoining Hiranyakeshi Valley is very much lower than that of Ghataprabha. It, therefore, appears possible to divert the Ghataprabha waters into the Hiranyakeshi Valley to take advantage of this natural fall available for purposes of seasonal generation of Electric Power the tail race being ultimately utilized for Irrigation purposes.

2. As indicated on the index plan attached, it is proposed to draw water from the dam at Hadalga and run the power-channel along the contour for about 4½ miles upto the main ridge. The channel will cross the Tarva Nalla on a low Aqueduct and the main ridge between contours 2350 on either side through a tunnel of about 1 mile length whence the waters will be led through penstock pipes to the generating station. The generating station is proposed to be located near Harur in the Hiranyakeshi Valley and the approximate level of this site as indicated in the topo-sheet is 2080.00. Thus a gross head of about (2300 minus 2080) 220 feet is likely to be available.

3. Keeping in view Irrigation as the main object of storage, the supply of storage water for power generation may be assumed as shown below :-

(1) 1500 cusecs continuous during Rabi Season.

(2) 500 cusecs continuous during Hot Weather.

(3) nil during season, monsoon

4. There is a growing demand for Electric Power for development of enterprising industries like the Sugar Factory at Mudhol, the tapping of the bauxite resources in the surrounding area and the allied Alluminium industries and a few others of the kind. For the successful operation of the Lift Irrigation Scheme envisaged by Government, some Electric Power would be necessary. It is hoped that the seasonal generation of Electric Power as proposed above would meet these demands, when and if implemented. With this ~~xkaxxix~~ object in view, the scheme is worth considering. It may be feasible to ultimately connect this to the Grid Scheme undertaken by your Department.

5. I request you to send your comments on the feasibility of the above Irrigation-cum-Hydel Project.

Sd/- A.G.Naik.
Superintending Engineer, K.I.C.

Encl: 1 plan.

Copy w.cs. for information to the Executive Engineer, Irrigation Projects Division (South) Dharwar.

GNK/-26.5.

15

D.O.

No.Bm/Hydro.
Office of the
Superintending Engineer,
Karnatak Irrigation Circle,
Dharwar, 26th May 1950.

Dear Sir,

During your last camp at Dharwar you enquired of me the power potential of the Ghataprabha Valley Development Scheme. I enclose herewith a copy of my letter No.Bm/Hydro, dated the 26th May 1950 addressed to the Electrical Commissioner with the Government of Bombay in this connection for your perusal. I request that early consideration may be given to the proposal of further investigation of the Hydel Scheme by the Grid Officers.

Yours faithfully,

To

Hon'ble Dr.Jivraj N. Mehta,

P.A

Minister for Public
Works and Housing,
Government of Bombay,
Secretariat, Fort,
Bombay No.1.

E I Br I
3016

P. W. D.
File No. 919H/36

Serial No. 52755

El Br I

P.A.

Secretary of State for Commonwealth Affairs has written to me a case with me. I forget what it is exactly, but I believe it is about Canada Power House existing out of letter from President, Barrow Municipality. - He [illegible] forwarded me [illegible] yesterday.

When they Come for this case, I would like this file when the discussion with Commonwealth Office Commons You might have them ready.

You might [illegible] this connection

x Spoken to H.M. Bay 29/4

Secy. Hassen P.W.D.

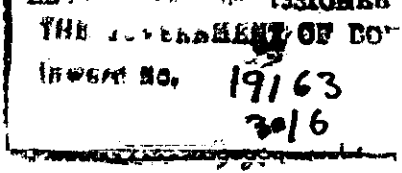
(P.T.O.)

9194/36
52755

P.W.D. is requested to send this letter to the Electrical Commr. with the G.S.D.

This letter was shown to the Secy by Dy. Secy. (Shri J.)

30/6/36



30/6

Ltr to Elect Commr
of P.W.D. (All Sections)

SF(11)

12/7

EIC
1317

P. W. D.
File No. 9194/36
Serial No. 56545

Encl B
(Please see letter
once below)

E. B. I

E. I. P. Railway

9194/36/43347

El. Br. II

P. W. D.

The Ghataprabha Left Bank canal scheme has been administratively approved and technically sanctioned in G.R. No. 9194/36, d. the 13-1-49. In his letter p. 5-7 within the S.E., K.I.C., states that the construction of a storage dam on the Ghataprabha river is likely to be started within the next two years. He therefore suggests that it is essential to investigate fully the economics of power generation in the Ghataprabha valley, and requests p. 7, Govt. to authorise the El. comnr. to depute one Exe. Engr. (Hydro) to work out the scheme.

a will be put up separately. & addressed to the El. Comnr.

2. In this con., it is stated that the Kalinadi and Jog schemes in the Karnatak area are already under consideration of Govt. Besides, it is seen from 'A' on p. 7 ante that one of the Guid Exe. Engrs. is already ~~investigating~~ investigating provision of thermal installations in parts of the Belgaum dist. in the South. Before taking further action, the El. Comnr. may be requested to offer his -

remarks with refce. to the S.E. K.I.C's. proposal mentioned at 'B' overleaf.

Thro' 9B (II) & D.E. (9)

MM 16-6-50

ABS 15-6-50 Dm 17/6/50

DS no bill co's

I.B (II) has received some report in this connection from the Mlle Commr and I have asked the Sec to keep copies. Pl put up them

kp 17/6

→ To 9B (II) with reference my. secy's note.

RB 19/6/50

Resubmitted

2 The papers (only 2 sheets) mentioned by the Dy. Secy. regarding investigation of the Hydro-Electric part of the Ghataprabha Valley Project were submitted to him under No. 9194/36/47055[x] on the 16-6-50 and have not yet been received back in office. They are not also to be found on the A.C.E.'s table here. It is not known whether they have been sent up to the A.C.E. in Simla

MM 24-6-50

Pl make a search again & put up after perg & disp. I have passed on the note long ago

kpk/6/50

→ To 9.B (II)

Returned to Sl. B(II) with a copy of the papers referred to.

MM 12-7-50

7:6

Ghataprabha valley development scheme as now envisaged comprises of two storage dams one on the Ghataprabha river and the second on the Hiranyakeshi river(a tributary of the Ghataprabha river), one left bank canal starting from the existing Dhupdal pick-up-weir and one right bank canal starting from either the dam proper or from a new pick-up-eir down below.

Total approximate cost:- Rs.30 crores.

Area to be irrigated about 6 lakhs acres in Bijapur and Belgaum Districts.(5 lakhs of acres under food crops plus 1 lakh acres under non-food crops).

2. The cost of the left bank canal 73 miles in length taking off from the existing pick-up-weir at Dhupdal and one storage reservoir of about 32,000Mcft on either the Ghataprabha river or its tributary the Hiranyakeshi river, is estimated at Rs.13 crores. This will irrigate about 3 lakhs acres of seasonal crops in a gross commanded area of 4½ lakhs acres (2.5 lakhs under Food crops plus 0.5 lakh of acre under Non-Food crops).

3. At present only a part of the scheme described in para 2 above is in progress. The length of the left bank canal under construction is 44 miles and this will irrigate an area of 1,25,000 acres of only Kharif crops by making use of the river flow available at the existing pick-up-weir at Dhupdal. The cost of this part of the scheme is Rs.5.4 crores.

Id/- K.V.J.
8-5-50.
D. S.

Id/- J.N.M.
8-5-50
H. M.

Additional Ch.Engr. may like to see this

Id/- K.V.J.
16-5-50.
D. S.

The Scheme could be modified as follows.

One .....

One Storage reservoir on Ghatprabha Tunnel from Ghataprabha to Hiranyakeshi.

One balanging reservoir on Hiranyakeshi left bank canal 73 miles long. Power production between Ghatprabha and Hiranyakeshi by taking advantage of the 250 fall between the beds or Ghatprabha to Hiranyakeshi

Probable Power generation could be of the order ( ) will have to be ascertained from Ele.Grid.

Id/- N.P.G.
18-5-50.
Ch.Engr.

P. W. Deptt.

This may be shown to the S.E.,Karnatak I.C., through the El.Commr.

Through D.E.(I).

Id/-
17-5-50.

Id/-K.V.J.
19-5-50.
D.S.

U.O. to El.Commr. and S.E.,Karnatak I.C. dated 22-5-50.

2. S. 12/7/50.

Below Government,P.W.D.,U.O.R.No.9194/36, dated 22-5-1950.

ELECTRIC GRID DEPARTMENT.

In his letter No.BM/Daddi, dated 16-5-1950, the Superintending Engineer, Karnatak Irrigation Circle, Dharwar has written to us about a proposal for providing a storage reservior of about 30,000 M.cft. on the Ghataprabha River near Hadalga for irrigation purposes. He has indicated the possibilities of seasonal power generation by utilising the natural fall which can be created if the Ghataprabha waters are diverted to the Hiranyakeshi Valley about 6 miles away and desires us to comment on the feasibility of the Project. This letter has been acknowledged under this office No.HZ-22/11303, dated 24-5-1950.

The P.W.D.,U.O.R., refers to the above subject and wants us to give the probable power generable therefrom. From the approximate figures given by the Superintending Engineer, Karnatak Irrigation Circle, the power-generable will be as follows:

22,600 K.W.(Cont.).during Rabi Season.

7,530 K.W.(Cont.) during Hot Weather.

Some power may also be generated during monsoon as indicated by the Superintending Engineer, Karnatak Irrigation Circle, in his letter dated 26-5-1950. Pop 11-12

This does not take into consideration fluctuation of head in the reservoir during Rabi Season and Hot Season. More accurate calculations ~~xxx~~ can only be made and the economics of the Scheme worked out after it has been carefully studied. If Government desire that this should be done, the work will be taken up, after the Koyna Project Report is submitted to Government.

Ld. P.B.A 9.6.50

To.....

To

Secretary to Government,
P. W. D., Bombay.

U.O.R.No.HZ-22/12970
Bombay 1: 9th June,1950.

Copy forwarded with compliments to the Superintending Engineer, Karnatak Irrigation Circle, Dharwar, in reference to his letter No.Bm/Hydro, dated 26th May 1950.

P. W. Dentt.

The papers may be referred to the S.E., Karnatak I.C., for remarks.

Id/-
16-6-50

Through D.E.(I).

Better keep copies before dispatch.

Id/-K.V.J.
17-6-50.
D.S.

2. 16.
S. 12/7
~~12/50~~
12-7-50.

9194/36/43347, 52755 & 56545

El. Br. (I)

P. W. D.

In his endt. on p. 7 ante, the S. E., Karnataka Irrigation circle requested Govt. to authorise the El. Commr. to depute one Ex. Engr. (Hydro) to investigate fully the economics of power generation in the Ghataprabha Valley.

2. Please see ~~the~~ copies of the notes on pp. 22-26 ante, which have been taken from the G.B. II file No. 9194/36/47055, 65143 dealing with the same subject. It will be seen therefrom that the El. Commr. is of the opinion that the probable power generation in the Ghataprabha Valley will be p. 5 22,600 K.W. (cont.) during Rabi season and 7,530 KW. (cont.) during Hot weather. The El. Commr further adds p. 5 that more accurate calculations can only be made and the economics of the Scheme worked out after it has been carefully studied and that if Govt. desires, the work will be taken up after the Koyna Project Report is submtd to Govt. (This has since been recd.).

X Refer below

3. The GB (II) file No. 9194/36, containing the above remarks of the El. Commr. has ~~be~~ been

rejd. —

refd. no. to the S.E., Karnataka Irrign. Circle since the 12-7-50 for further remarks of the S.E. Till the return of this above file, these papers may be kept in await, if approved.

ASS
28-7-50

Two! 9B (II)

28/7/50

28.7.

Yfd 29/7/50

IV

—> Sri. B (Mrs. ... d)

Sig.

9194/36
56565

P.W.D.

El.Br(I)

Resubmitted

2. The O.M. at p. 27-28 ante explains the case. Further remarks of the S.E., K.I.C. have been received, vide pp 8-9 of case No. 9194/36/65143 put up below. The El. Commr. has submitted the Konya Project report which is being examined separately in file No 6321/48. It is for consideration whether the El. Commr may now be requested to ~~study~~ investigate fully the economics of power generation in the Ghataprabha valley.

A

8/11/50

As at 'A' above.

11/11/50

D.S.

Secy.

Secy might remark how long is the investigation as suggested in Memo Klaku? 13/11 11/11/50

9S → H.M
13/11

X 13/11

~~Round the~~ Round to answer

Immediate:
The period may be ascertained (approximately) by 16/11 (morning) from Elec Comr's office
15/11

~~to report whether~~ Round report for ~~to keep~~ Secy: 12 11/11

17/11

I contacted Dr Ram Prasad S.E. (Hydro) on phone He informed me that he is deputing his Exe. Engr to go and meet Shri Naik S.E. Karwar Irrigation Circle and get clear idea of the nature & extent of investigation to be carried out and that he would be able to estimate the approx period required for the investigation after the return of the Exe. Engineer & Bombay He hopes to submit the required information & data after about a week

Yours faithfully

This is awaited. 16/9

Secy

9194/36
56548

3

Await (22.11.50)

111

Sub : Utilisation of the natural difference in level between the Ghataprabha and Hiranyakeshi valleys for Hydro Electric Power generation.

The proposed sites of the Hydro Electric works were inspected by our Executive Engineer (Hydro) and the Executive Engineer (Irrigation Project Division, (South) on 17th and 18th November 1950. At the proposed site, the Ghataprabha and Hiranyakeshi river courses are situated about 6½ miles apart, separated by the valley of the Tarva Nalla. The difference in level between the two river courses is about 200 ft. The proposals as tentatively surveyed by the Irrigation department comprise of a contour channel about 30,000 ft. long, a tunnel about 8,500 ft. long penstocks 6,000 ft. long and tail race channel about 4,000 ft. long. It is suggested that the difference of level in the river courses and the head created by the proposed dam upto the minimum draw off level (i.e. about 35 ft.) should be utilised for power generation.

The reservoir design shows that the discharges for irrigation would vary from nil discharge in monsoon to 1,500 cusecs in Rabi season. Any appreciable power (firm) would not, therefore, be available from the irrigation waters along, but it can be produced from some additional water that could be issued from the reservoir for hydro power generation, as suggested by the Executive Engineer, Irrigation Project Division, South.

Two alternative schemes are suggested below taking the above facts into consideration.

i) Development of about 10,000 KW firm power @ 50% L.F. based on the minimum discharge of about 500 cusec during hot weather and monsoon flow during the rainy season.

ii) Development of about 30,000 KW firm power @ 50% L.F. based upon the Rabi discharge of 1,500 cusecs by the installation of two power stations of identical capacity

P.T.O.

one at the Harur site, and the second at the Gokak falls, where a gross head of about 160 ft. is available. The power station near Harur village will function during the non-monsoon period and utilise the irrigation water for about four months and will require some extra discharge during the post monsoon (1½ months) and hot weather periods (4 months). The second station to be located below the Gokak falls will function during the monsoon period and utilise the flood waters.

The power station deriving water from the proposed Ghataprabha reservoir will have to be located near the village, HARUR on the right bank of the Hiranyakeshi river, and the water will have to pass through a tunnel about 4 miles long to enable utilisation of the variable extra head from the reservoir. The provision of such a tunnel is preferable to a contour canal and will avoid an expensive forebay.

On account of the features of the intervening slope, the pipe line will be expensive and the hydraulic conditions involved may result in unsatisfactory regulation which call for special protective works. This requires some further advice from Turbine Manufacturers.

Estimates for all civil engineering works such as canal, tunnel, power station building, tail race channels and the Electrical and Mechanical Engineering Works including transmission and distribution lines have to be prepared after further studies and investigations. Since the block of power generable is fairly appreciable, power will have to be trans mitted to load centres capable of absorbing the power. Such centres are situated at fairly long distances (about 50 miles) and may be already covered by other project net-works such as the Koyna and Kalinadi Schemes. Before considering the project, these factors will have to be examined to see

P.T.O.

if it is worth while to make further investigations on the project.

All the above will involve a large amount of field and design work.

PSN/2.12.

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Electric Grid Offices.

Ref : Ghataprabha Valley development Scheme, Hydro power generation.

In continuation of the notings made in our O.U.R. No. HZ-22/12971 dated 9th June 1950 and the telephone enquiry from the Deputy Secretary, Public Works Department, Bombay, about the middle of November 1950, in the matter, I wish to state that the sites for the proposed Hydro Electric power development from the natural difference in level between the Ghataprabha and Hiranyakeshi Valleys were inspected by my Executive Engineer and necessary data were collected. The accompanying note describes the alternative suggestions regarding possibilities of hydro power development that will have to be studied in detail, before the feasibility of the project can be properly assessed. It would also be necessary to obtain some information from manufacturers of Hydro Electric machinery to facilitate the preparation of approximate estimates and make an assessment of the economic results. All this work will take about four to six months as the study will be interrupted now and again on account of urgent works of Koyna Project.

Accomplo EE I 7/12

PSN/12.12.

5 12 50

P. W. D.
File No. 4194/36
Serial No. 99265

To
The Secretary to Government,
Public Works Department,
Bombay.

EE BI Secy 6/12 u.o.r. No. HZ-22/ 29070 dt. 5 12-50.

5-12

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E|B.Br.(I). P.W.D.

Submitted with reference to the H.M., P.W.D.'s minute on p. 29 ante.

2|- Please see the Elect. Comm's report (pp 33–39) wherein it will be seen therefrom that a period of 4 to 6 months will be reqd. to investigate fully the economics of power-generation in the Ghatprabha Valley. It is therefore for orders whether the Elect. Comm. may be instructed to take up this work.

[Through I.B.(II) & D.E.(G)]

P.W.D. 14/12/50.

14-12-50 (pp 33–37) The Elec. commr's note re power development on the Ghatprabha is not optimistic. The proposal may, if appd, be dropped.

S.E. C.E. Secy H.M. P.W.D. 14/12/50.

21/12 X 21/12

14/12

19.12.50.

21/12/50

27/12 10.30

21/12 Sent P. 27/12

H.M. A.T.T. wanted to have information about the possibilities of hydro power development & connection with the Ghataprabha Irrigation project. His attention is invited to the Elec. Commissioner's note, dated 5-12-50 (pp 39 ante) and has to be returned, (pp 33–37).

16 4/12

4/1/51

H.M. A.T.T. 18-4-52

9194/36/9925

E.Br. (I).

P.W.D.

Resubmitted.

2/- The draft put up may issue, if approved.

[Through I.B. (II) & DE(I)]

13/1/51

12-1-51.

15/1/51.

15/1/51

D.S.

9194/36/99245

No. 9194/36-El.(I) Letter.

P.W.D.
B.C. (Bombay No. 1),
16th Jan. 1951
21st

To

The Elect. Comm. with the Govt.
of Bombay.

Subject:— Utilisation of the natural difference in level between the Ghatprabha & Hiranyakeshi Valleys for Hydro-Electric Power generation.

Reference: Correspondence ending with your ~~letter~~ Memo No. H.Z. 22/29070, dated the 5th Dec. 1950.

2/- Govt. has decided to drop the proposal re: detailed investigation in connection with economics of power generation in the Ghatprabha Valley.

D.A - Nil.

By order etc,

A.S. to Govt, P.W.D.

Copy, with copies of the Elect. Comm's memo replied to and P.D. 33-37 in account, forwarded to the S.E., Karnatak Irrigation Circle, with reference to his endst. No. DM/Hydro. dated the 26-5-50.

12/1-51.

9194/36
99265

To

9B. (II) (Civil a copy of his C.L. of Mr. Watson bearing file no. 9194/36/6514/43)

27/1

To

9B (II)

Retained, thanks

B.N.
29/1/51

To El. Br. (I)

(P

No.5866-Two H5

OFFICE OF THE
HONOURABLE MINISTER FO PUBLI WORKS.
SECRET-RIAT. BOMBAY.
~~COUNCIL H. LL. POONA.~~

Date 2nd April 1952.

Very Urgent.

H.M.remembers that some time back when Shri P.B.Advani, who was the Elecl.Commr.with the Govt.of Bombay, Shri Naik, S.E.,K.I.C. had raised a question whether it was possible to generate electric energy from the Ghataprabha Project for utilization for and the development of the Aluminum Industry in the area. H.M. would like to see the papers which contain the report from the then Elecl. Commr. in this connection.

2.4.52

P. W. D.
P.W.D. 9194/36
Serial No. 32342

2/4/52

4/4/52

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P.W.D.

KBn

Submitted with reference to the P.A. to P-45
to the H.M.'s note of 2-4-52.

2. The pfs in question have been put up. Shri Naik's note will be found at p-5 ante, the C.E., B.E.Gs report at pfs. 33-39 ante and Govt. decision to drop the project at p-41 ante.

12/4/52.

14/4

15.4.52

D.S.(P&E)
Secy.
H.M.

9-5-X 15/4
15/4

Hon. Pl. see p. 41 within.
15/4/52
P.W.D

19/4
12-45

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file
19/4

BJB 18.7.52

Bibliothek
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